

HOOD RIVER PRODUCTION PROGRAM - PGE O&M

9500700

SHORT DESCRIPTION:

Provide the necessary O&M work to ensure that the Pelton Ladder / Round Butte facilities used to produce spring chinook for BPA is maintained in good working order or is added to meet project objectives.

SPONSOR/CONTRACTOR: PGE

Portland General Electric (PGE)

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SUB-CONTRACTORS:

None at present. However, this project and project 89-029-00 will be combined into a single contract and ODFW would become a subcontractor. This action was requested by ODFW. This action should streamline work since ODFW is currently contracted by PGE to perform the mitigation associated with the construction and operation of the Pelton and Round Butte Projects.

GOALS

GENERAL:

Supports a healthy Columbia basin, Maintains genetic integrity, Increases run sizes or populations

ANADROMOUS FISH:

O&M

NPPC PROGRAM MEASURE:

7.4N.1

RELATION TO MEASURE:

This project makes use of two PGE facilities (Round Butte Hatchery and the Pelton ladder and trap to collect, hold and spawn adult spring chinook and to hatch, rear and extended rearing of young. This project pays the O&M costs associated with maintaining existing equipment and facilities and the development of those equipment needed to meet project objectives. The facilities being used are facilities owned and operated by PGE. This project provides the operational foundation of Measure 7.4N.1. In the FY98 this and project 89-029-00 will be combined into a single project under a number that shows its relationship to project 88-053-03 and 04. The new project number will be 88-053-06.

TARGET STOCK

Deschutes River spring Chinook

LIFE STAGE

Egg to 1 plus smolt

MGMT CODE (see below)

S, A, and W Stock is released into Deschutes and Hood River systems

BACKGROUND

Stream name:

Deschutes River

Subbasin:

Deschutes

Land ownership:

Facilities owned and operated by PGE

HISTORY:

PGE provides the use of Pelton Ladder, Round Butte Hatchery to BPA at no charge for the purpose of constructing and operating additional production facilities. BPA pays the O&M costs of operating these facilities to produce the spring chinook required under the Pelton Ladder Production Project of the NWPPC. This additional capacity is not part of the mitigation requirements of PGE for construction and operation of the Round Butte - Pelton project.

BIOLOGICAL RESULTS ACHIEVED:

The spring chinook reared in the Pelton Ladder have a higher than normal rate of return than spring chinook from other facilities. In addition this production is realized at a cost lower than would be achieved if BPA were required to build and

operated independent facilities.

ADAPTIVE MANAGEMENT IMPLICATIONS:

Management inferences regarding effectiveness of extended rearing spring chinook under different densities in cells in Pelton ladder will be developed and reported by CTWSR under project 88-053-03

PURPOSE AND METHODS

SPECIFIC MEASUREABLE OBJECTIVES:

Continue to maintain these facilities in good working order and install those equipment needed to meet project objectives.

CRITICAL UNCERTAINTIES:

Disease out breaks in the ladder, or higher than expected mortalities after release.

BIOLOGICAL NEED:

N/A.

HYPOTHESIS TO BE TESTED:

Additional cells will not produce adults at the same rate as did PGE cells alone.

ALTERNATIVE APPROACHES:

Building a hatchery and extended rearing ponds.

JUSTIFICATION FOR PLANNING:

N/A

METHODS:

N/A.

PLANNED ACTIVITIES

SCHEDULE:

<u>O&M Phase</u>	<u>Start</u> 1995	<u>End</u> Dec. 1997	<u>Subcontractor</u>
<u>Task</u> Operation and maintenance of additional facilities at Pelton Ladder and Round Butte			

PROJECT COMPLETION DATE:

December, 1997 (Fully Operational)

CONSTRAINTS OR FACTORS THAT MAY CAUSE SCHEDULE OR BUDGET CHANGES:

N/A

OUTCOMES, MONITORING AND EVALUATION

SUMMARY OF EXPECTED OUTCOMES

Expected performance of target population or quality change in land area affected:

PGE will continue to provide the necessary O&M of these facilities to meet project objectives.

Present utilization and conservation potential of target population or area:

N/A See projects 88-053-03 and 04.

Assumed historic status of utilization and conservation potential:

N/A

Long term expected utilization and conservation potential for target population or habitat:

N/A

Contribution toward long-term goal:

Maintenance of those facilities needed to meet project goals.

Indirect biological or environmental changes:

Project contributes to the determination that more extended rearing cells are feasible.

Physical products:

N/A

Environmental attributes affected by the project:

N/A

Changes assumed or expected for affected environmental attributes:

N/A

Measure of attribute changes:

N/A

Assessment of effects on project outcomes of critical uncertainty:

See projects 88-053-03 and 04.

Information products:

See projects 88-053-03 and 04.

Coordination outcomes:

Provide necessary maintenance and operational actions to effect production goals and administrative effectiveness.

MONITORING APPROACH

N/A.

Provisions to monitor population status or habitat quality:

See projects 88-053-03 and 04.

Data analysis and evaluation:

See projects 88-053-03 and 04.

Information feed back to management decisions:

See projects 88-053-03 and 04.

Critical uncertainties affecting project's outcomes:

See projects 88-053-03 and 04.

EVALUATION

See projects 88-053-03 and 04.

Incorporating new information regarding uncertainties:

See projects 88-053-03 and 04.

Increasing public awareness of F&W activities:

The project does not increase public awareness, a public relations program will.

RELATIONSHIPS

RELATED BPA PROJECT

8805303
8805304
8902900

RELATIONSHIP

All of these projects are integral parts of the Hood River Production Program and 89-029 and 95-007 are essential parts of the Council's Pelton Ladder Production Plan. These two projects effect the release of Deschutes River spring chinook into the Deschutes and Hood Rivers. _

RELATED NON-BPA PROJECT

PGE Pelton Ladder/Round Butte Mitigation

RELATIONSHIP

Projects 89-029 and 95-007 use PGE facilities to meet Council goals

OPPORTUNITIES FOR COOPERATION:

Projects 89-029 and 95-007 are integral parts of the Hood River Production Program and projects 88-053-03 and 04 provide the necessary Monitoring and Evaluation actions to these two projects. PGE is a cooperating agency and makes available, research, data, and coordinate compatible actions.

COSTS AND FTE

1997 Planned: \$56,000

FUTURE FUNDING NEEDS:

<u>FY</u>	<u>\$ NEED</u>	<u>% PLAN</u>	<u>% IMPLEMENT</u>	<u>% O AND M</u>
1998	\$74,000	0%	0%	100%
1999	\$65,000	0%	0%	100%
2000	\$67,000	0%	0%	100%
2001	\$70,000	0%	0%	100%
2002	\$75,000	0%	0%	100%

PAST OBLIGATIONS (incl. 1997 if done):

<u>FY</u>	<u>OBLIGATED</u>
1995	\$30,000
1996	\$25,788
1997	\$59,250
TOTAL:	\$115,038

Note: Data are past obligations, or amounts committed by year, not amounts billed. Does not include data for related projects.

FY OTHER FUNDING SOURCE

1998	We use PGE facilities and only pay O&M costs.
1999	We use PGE facilities and only pay O&M costs
2000	We use PGE facilities and only pay O&M costs
2001	We use PGE facilities and only pay O&M costs
2002	We use PGE facilities and only pay O&M costs

AMOUNT IN-KIND VALUE

Unknown	Unknown
Unknown	Unknown
Unknown	Unknown
Unknown	Unknown
Unknown	Unknown

OTHER NON-FINANCIAL SUPPORTERS:

PacifiCorp supports the Hood River portion of the project by allowing the use of their lands at no cost.

LONGER TERM COSTS:

Budgets five years and further out are impossible to accurately predict. Yes the project is expected to continue.

1997 OVERHEAD PERCENT: 17%

HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:

100%

SUBCONTRACTOR FTE: N/A

SUPPLEMENTAL ANADROMOUS FISH EVALUATION FACTORS:

This project provides age 1 plus spring chinook smolts to the Deschutes and Hood River systems. The fish released into the Deschutes augments those being released by the PGE operation. Those released into the Hood River are part of supplementaion and replacement program designed to reestablish a self sustaining population of spring chinook in the system. This and the Hood River projects are dependent on PGE and PacifiCorp cooperation and loan of existing facilities and land at no charge to complete. Using existing PGE facilities eliminated the need to build additional hatchery and rearing facilities. The smolts from Pelton Ladder tend to survive at twice or better rate than fish from other sites.

SUPPLEMENTAL RESIDENT FISH EVALUATION FACTORS:

Project provide the production foundation for a program that has received acknowledgments from NMFS for adherence to good science and supplementation principles.